

CLAIM AMENDMENTS:**10/550170**
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Please amend the claims as follows:

1. (Currently Amended) A condenser microphone employing a wide band stop filter for wideband signals of low frequency and radio frequency, the condenser microphone having improved resistance to electrostatic discharge applied from outside and preventing radio frequency interference to decrease noise, the condenser microphone comprising:

an acoustic module ~~36~~ for converting sound pressure into ~~variation of~~ an electric signal;

an amplification means for amplifying the electric signal inputted from the acoustic module ~~36~~; and

an EM-noise-filtering/ESD-blocking section ~~32~~ for blocking a wideband signal having low frequency and radio frequency outputted from the amplification means, blocking introduced electromagnetic waves, radio wave noise, and electrostatic discharge, the EM-noise-filtering/ESD-blocking section including one or combination of a resistor and a capacitor disposed between an input port of the amplification means and the acoustic module ~~36~~ and/or between an output port of the amplification means and a ground, the resistor and the capacitor being connected in parallel or in series to each other.

2. (Original) A condenser microphone as claimed in claim 1, wherein the capacitor and the resistor have a capacitance between 1pF and 100 μ F and a resistance between 10 Ω and 1G Ω , respectively, each of which can be selectively adjusted according to frequency band.

3. (Currently Amended) A condenser microphone as claimed in claim 1, wherein the EM-noise-filtering/ESD-blocking section ~~32~~ comprises:

a resistor ~~R11~~ connected serially between output port of the amplification means

and signal output port ~~34a~~; and

a capacitor ~~C11~~ connected between one end of the resistor ~~R11~~ and ground ~~GND~~.

4. (Currently Amended) A condenser microphone as claimed in claim 3, wherein:

the capacitor ~~C11~~ has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

the resistor ~~R11~~ has a resistance selected from the group consisting of 100 Ω , 220 Ω , 330 Ω , 430 Ω , 620 Ω , 680 Ω , 820 Ω and 1K Ω .

5. (Currently Amended) A condenser microphone as claimed in claim 1, wherein the EM-noise-filtering/ESD-blocking section ~~32~~ comprises:

a first capacitor ~~C21~~ connected in parallel between an output port of the amplification means and a ground port to function as a filter;

a second capacitor ~~C22~~ connected parallel to the first capacitor ~~C21~~ to perform an EM-noise-filtering and ESD-blocking function; and

a first resistor ~~R21~~ connected serially ~~to~~ between an output port of the first capacitor ~~C21~~ and an output port of the second capacitor ~~C22~~ to perform a decoupling function, so that the EM-noise-filtering/ESD-blocking section has a shape of a character 'II'.

6. (Currently Amended) A condenser microphone as claimed in claim 5, wherein:
the first capacitor ~~C21~~ has a capacitance of 10pF or 33pF;
the second capacitor ~~C22~~ has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF;
and

the first resistor ~~R21~~ has a resistance selected from the group consisting of 100 Ω , 220 Ω , 330 Ω , 430 Ω , 620 Ω , 680 Ω , 820 Ω and 1K Ω .

7. (Currently Amended) A condenser microphone as claimed in claim 1, wherein the EM-noise-filtering/ESD-blocking section ~~32~~ comprises:

a first capacitor ~~C21~~ connected in parallel between an output port of the amplification means and a ground port to function as a filter;

a second capacitor ~~C22~~ connected parallel to the first capacitor ~~C21~~ to perform an EM-noise-filtering function; and

a first resistor ~~R21~~ connected serially to between a ground port ~~GND~~ of the first capacitor ~~C21~~ and a ground port ~~GND~~ of the second capacitor ~~C22~~ to perform a decoupling function, so that the EM-noise-filtering/ESD-blocking section has a shape of a character 'inverted Π '.

8. (Currently Amended) A condenser microphone as claimed in claim 7, wherein:

the first capacitor ~~C21~~ has a capacitance of 10pF or 33pF;

the second capacitor ~~C22~~ has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

the first resistor ~~R21~~ has a resistance selected from the group consisting of 100 Ω , 220 Ω , 330 Ω , 430 Ω , 620 Ω , 680 Ω , 820 Ω and 1K Ω .

9. (Currently Amended) A condenser microphone as claimed in claim 5 ~~or claim~~ 7, further comprising a noise-blocking resistor ~~R22~~ between the acoustic module ~~36~~ and input port of the amplification means so as to block electromagnetic noise from being inputted.

10. (Original) A condenser microphone as claimed in claim 9, wherein the noise-blocking resistor has a resistance selected from the group consisting of 100 Ω , 1K Ω , 10K Ω , 100K Ω , and 1M Ω .

11. (Currently Amended) A condenser microphone as claimed in claim 1, wherein

the EM-noise-filtering/ESD-blocking section ~~32~~ comprises:

a first and a second capacitor ~~C31 and C32~~ connected in parallel between output port of the amplification means and ground port; and

a first and a second resistor ~~R31 and R32~~ connected respectively between adjacent ends of the two capacitors ~~C31 and C32~~, so that the EM-noise-filtering/ESD-blocking section has a shape of a character '#', wherein,

the first capacitor ~~C31~~ performs a filtering function, the second capacitor ~~C32~~ facinged to the first capacitor ~~C31~~ performs an EM-noise-filtering and electrostatic-discharge-blocking function, and the resistors ~~R31 and R32~~ performs a decoupling function and an electrostatic-discharge-blocking function.

12. (Currently Amended) A condenser microphone as claimed in claim 11, wherein:

the first capacitor ~~C31~~ has a capacitance of 10pF or 33pF;

the second capacitor ~~C32~~ has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

each of the first and second resistors ~~R31 and R32~~ has a resistance selected from the group consisting of 100 Ω , 220 Ω , 330 Ω , 430 Ω , 620 Ω , 680 Ω , 820 Ω and 1K Ω .

13. (Currently Amended) A condenser microphone as claimed in claim 11, further comprising a noise-blocking resistor ~~R33~~ between the acoustic module ~~36~~ and input port of the amplification means so as to block electromagnetic noise from being inputted.

14. (Currently Amended) A condenser microphone as claimed in claim 13, wherein the noise-blocking resistor ~~R33~~ has a resistance selected from the group consisting of 100 Ω , 1K Ω , 10K Ω , 100K Ω , and 1M Ω .

15. (Currently Amended) A condenser microphone as claimed in claim 1, wherein

the EM-noise-filtering section 32 comprises a first capacitor C41, a second capacitor C42, and a third capacitor C43 connected in parallel with each other between ground port and output port of the amplification means.

16. (Currently Amended) A condenser microphone as claimed in claim 15, wherein:

the first capacitor C41 can be selectively adjusted so as to have a capacitance between 10pF and 20pF;

the second capacitor C42 can be selectively adjusted so as to have a capacitance between 20pF and 1nF; and

the third capacitor C43 can be selectively adjusted so as to have a capacitance between 1nF and 100 μ F.

17. (Currently Amended) A condenser microphone as claimed in claim 15, wherein, in the EM-noise-filtering/ESD-blocking section 32, a resistor R51 is further connected serially between a signal output end of the second capacitor C42 and a signal output end of the third capacitor C43.

18. (Currently Amended) A condenser microphone as claimed in claim 17, wherein:

the first capacitor C41 is selectively adjusted so as to have a capacitance between 10pF and 20pF;

the second capacitor C42 is selectively adjusted so as to have a capacitance between 20pF and 1nF;

the third capacitor C43 has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

the resistor R51 has a resistance selected from the group consisting of 100 Ω , 220 Ω , 330 Ω , 430 Ω , 620 Ω , 680 Ω , 820 Ω and 1K Ω .

19. (Currently Amended) A condenser microphone as claimed in claim 15, wherein, in the EM-noise-filtering section-32, a resistor ~~R51~~ is further connected serially between a ground end of the second capacitor ~~C42~~ and a ground end of the third capacitor ~~C43~~.

20. (Currently Amended) A condenser microphone as claimed in claim 19, wherein:

the first capacitor ~~C41~~ is selectively adjusted so as to have a capacitance between 10pF and 20pF;

the second capacitor ~~C42~~ is selectively adjusted so as to have a capacitance between 20pF and 1nF;

the third capacitor ~~C43~~ has a capacitance selected from the group consisting of 1nF, 1.5nF, 2.2nF, 3.3nF, 4.7nF, 6.8nF, 10nF, 15nF, 22nF, 33nF, 47nF, 68nF and 100nF; and

the resistor ~~R51~~ has a resistance selected from the group consisting of 100 Ω , 220 Ω , 330 Ω , 430 Ω , 620 Ω , 680 Ω , 820 Ω and 1K Ω .

21. (Currently Amended) A condenser microphone as claimed in claim 1-~~or~~ 2, wherein, the capacitor is a temperature compensating capacitor or a capacitor of high dielectric constant.

22. (Original) A condenser microphone as claimed in claim 1, wherein, the amplification means is one of an amplifier used in a built-in-gain microphone and a field-effect transistor.

23. (New) A condenser microphone as claimed in claim 7, further comprising a noise-blocking resistor between the acoustic module and input port of the amplification means so as to block electromagnetic noise from being inputted.

24. (New) A condenser microphone as claimed in claim 23, wherein the noise-blocking resistor has a resistance selected from the group consisting of 100Ω , $1K\Omega$, $10K\Omega$, $100K\Omega$, and $1M\Omega$.